

WE CLAIM:

1. A solid alkaline detergent composition comprising:

(a) an effective amount of a source of alkalinity sufficient to provide soil removal; and

5 (b) a binding agent dispersed throughout the solid detergent, the binding agent comprising an alkali metal carbonate hydrate, an organic sequestrant that can cooperate in the formation of the binding agent comprising an organo phosphonate or an organo amino acetate and water wherein, in the binding agent, for each mole of the organic sequestrant composition there is about 3 to
10 10 moles of the carbonate monohydrate and 5 to 15 moles of water;

wherein the binding agent has a melting transition temperature of greater than about 120°C.

2. The composition of claim 1 wherein the organic sequestrant comprises amino tri(methylene phosphonic) acid or sodium salt thereof.

15 3. The composition of claim 1 wherein the organic sequestrant comprises 1-hydroxyethylidene-1,1-diphosphonic acid or sodium salt thereof.

4. The composition of claim 1 wherein the organic sequestrant comprises diethylenetriaminopenta(methylene phosphonic) acid or sodium salt thereof.

20 5. The composition of claim 1 wherein the organic sequestrant comprises β -alanine-N,N-diacetic acid or sodium salt thereof.

6. The composition of claim 1 wherein the organic sequestrant comprises diethylenetriaminepentaacetic acid or sodium salt thereof.

7. The composition of claim 1 wherein the composition additionally comprises a builder comprising sodium tripolyphosphate, sodium nitrilotriacetate, or mixtures thereof.
- 5 8. The composition of claim 1 wherein the composition additionally comprises a surfactant comprising a nonionic surfactant, an anionic surfactant or mixtures thereof.
9. The composition of claim 1 wherein the binding agent has a melting transition temperature of about 120°C to 160°C.
- 10 10. The composition of claim 1 wherein the composition, other than the binding agent, comprises a carbonate monohydrate and an anhydrous carbonate.
11. The composition of claim 1 wherein the composition comprises a blend of two or more organophosphonate compounds, a blend of two or more aminoacetate
15 compounds or a blend of at least one organophosphonate and an aminoacetate.
12. The composition of claim 1 wherein the solid is in the form of a pellet.
13. The composition of claim 1 wherein the solid composition is in the form of
20 a solid block formed within a container.
14. The composition of claim 1 additionally comprises about 0.1 to 15 wt.% of a nonionic surfactant an anionic surfactant or mixtures thereof.